

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	46	(("6033090") or ("5463214") or ("6234397") or ("5514858") or ("6250551") or ("6513714") or ("6405925") or ("5378883") or ("6158661") or ("5481098") or ("6491223") or ("5569902") or ("5331176") or ("5598007") or ("6247645") or ("5697699") or ("5619029") or ("5149948") or ("5406060") or ("5586212") or ("5859418") or ("3726998") or ("6592040")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/05/26 14:29
S2	44	(("5177346") or ("6352204") or ("4820911") or ("5291009") or ("5349172") or ("5354977") or ("5484994") or ("5532467") or ("5591955") or ("5606160") or ("5623137") or ("5703348") or ("5756981") or ("5777314") or ("5894348") or ("5907148") or ("5969321") or ("5992751") or ("6036095") or ("6060722") or ("6105869") or ("6119939") or ("6267294")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/05/26 14:31

S3	6	"6283374"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 14:32
S4	21	((("6283374") or ("6360948") or ("6371374") or ("6385352") or ("6575367") or ("6607128") or ("20020096566") or ("20020125322") or ("20030062418") or ("20010027999")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/05/26 15:17
S5	34	(gerst.in. or equitz.in. or testa.in. or nadabar.in.) and illuminat\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:17
S6	1	(gerst.in. or equitz.in. or testa.in. or nadabar.in.) and illuminat\$5 and pipe	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:17
S7	5	(gerst.in. or equitz.in. or testa.in. or nadabar.in.) and illuminat\$5 and ring	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:20
S8	103	(barcode or "bar code" or bar-code or image or symbol or indica) and (S1 or S2 or S4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:21
S9	39	(barcode or "bar code" or bar-code or image or symbol or indica) and (S1 or S2 or S4) and (aim\$4 or pipe or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:22
S10	34	(barcode or "bar code" or bar-code or image or symbol or indica) and (S1 or S2 or S4) and (aim\$4 or pipe or ring) and (dark or low-angle or angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:27
S11	21	(barcode or "bar code" or bar-code or image or symbol or indica) and (S1 or S2 or S4) and (aim\$4 or pipe or ring) and (dark)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:28
S12	10	(barcode or "bar code" or bar-code or image or symbol or indica) and (S1 or S2 or S4) and (pipe or ring) and (dark)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:32
S13	1	(barcode or "bar code" or bar-code or image or symbol or indica) and (S1 or S2 or S4) and pipe and (dark)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:34

S14	643	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe and dark with bright	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/26 15:34
S15	40	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe same dark with bright	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/27 09:54
S16	341	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near4 light same (circular or circle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/27 09:55
S17	113	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near4 light same (circular or circle) same (square or rectangle or rectangular)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/27 11:12
S18	8	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near4 light same (circular or circle) same (square or rectangle or rectangular) and field near3 view	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/27 10:18
S19	15	(barcode or "bar code" or bar-code or image or symbol or indica) same pipe near4 light same (circular or circle) same (square or rectangle or rectangular)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/27 10:19
S20	108	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near2 light same (circular or circle) same (square or rectangle or rectangular)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/27 10:25
S21	11	(barcode or "bar code" or bar-code or symbol or indica) and pipe near2 light same (circular or circle) same (square or rectangle or rectangular)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/27 10:25
S22	157	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near4 light same (handheld or hand-held or portable or "hand held")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/27 11:12

S23	32	(barcode or "bar code" or bar-code or image or symbol or indica) same pipe near4 light same (handheld or hand-held or "hand held")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/27 11:13
S24	340	"235"/\$.cds. and light near2 (ring or pipe)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/12 09:44
S25	98	"235"/\$.cds. and light near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/12 09:50
S26	10	"235"/\$.cds. and (illuminat\$4 or light) near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6) same (illuminat\$6) near4 (image\$4 or barcode or "bar code" or bar-code or indicia or medium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/12 10:10
S27	5	"235"/\$.cds. and (illuminat\$4 or light) near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6) same (illuminat\$6) near4 (image\$4 or barcode or "bar code" or bar-code or indicia or medium) and rectangular same (illuminat\$4 or light)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/12 10:11
S28	5	"235"/\$.cds. and (illuminat\$4 or light) near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6) same (illuminat\$6) near4 (image\$4 or barcode or "bar code" or bar-code or indicia or medium) and (rectangular or rectangle) same (illuminat\$4 or light)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/12 10:43
S29	443	"235"/\$.cds. and (illuminat\$4 or light) near2 aim\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/12 10:44
S30	134	"235"/\$.cds. and (illuminat\$4 or light) near2 aim\$4 same (ccd or image near1 sens\$6 or cmos or imag\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/12 10:44

S31	47	((("6033090") or ("5463214") or ("6234397") or ("5514858") or ("6250551") or ("6513714") or ("6405925") or ("5378883") or ("6158661") or ("5481098") or ("6491223") or ("5569902") or ("5331176") or ("5598007") or ("6247645") or ("5697699") or ("5619029") or ("5149948") or ("5406060") or ("5586212") or ("5859418") or ("3726998") or ("6592040"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/05 06:42
S32	44	((("5177346") or ("6352204") or ("4820911") or ("5291009") or ("5349172") or ("5354977") or ("5484994") or ("5532467") or ("5591955") or ("5606160") or ("5623137") or ("5703348") or ("5756981") or ("5777314") or ("5894348") or ("5907148") or ("5969321") or ("5992751") or ("6036095") or ("6060722") or ("6105869") or ("6119939") or ("6267294"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/05 06:42
S33	19	(S31 or S32) and (pipe or tube or hollow or needle or lumen)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 06:51
S34	2	"20050087601"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 06:43

S35	11	(S31 or S32) and (pipe or tube or hollow or needle or lumen) and (bright or dark or (low near2 angle) or (high near2 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 06:57
S37	658	(illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code) and (pipe or tube or hollow or needle or lumen) and ((low near2 angle) or (high near2 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 06:59
S38	159	(illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code) and light near3 (pipe or tube or hollow or needle or lumen) and ((low near2 angle) or (high near2 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 07:00
S39	80	(illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code) and light near3 (pipe or tube or hollow or needle or lumen) and ((low adj1 angle) or (high adj1 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 07:01
S40	2	"20050047723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 08:13
S41	375	light adj1 pipe near6 (circle or circular or ring or retang\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 08:14
S42	24	light adj1 pipe near6 (circle or circular or ring or retang\$6) and (illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 08:15

S43	55	light adj1 pipe near6 (circle or circular or ring or retang\$6 or shape) and (illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/05 08:15
S44	5684	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) same (ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/17 13:19
S45	2310	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near5 (ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/17 13:21
S46	3137	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag \$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/17 13:27
S47	1458	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag \$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/17 13:53
S48	93	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag \$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (edge or perimeter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/17 13:49

S49	17	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/17 13:51
S50	11	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/17 13:51
S51	11	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/17 13:57
S52	11975	"light pipe"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/18 11:49
S53	60	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (diffus\$4 or tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/17 13:57
S54	1	10/693636	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/18 11:50
S55	6	10/693626	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/18 11:50



S56	1	10/693626 and lumen.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/18 11:50
S57	231	rectang\$5 near2 light near2 pipe	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/18 14:37
S58	58	rectang\$5 near2 light near2 pipe same (object or subject or barcode or "bar code" or bar-code or image or symbol or indica)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/18 14:39
S59	0	rectang\$5 near2 light near2 pipe same (object or subject or barcode or "bar code" or bar-code or image or symbol or indica) and "235"/\$.cls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/18 14:38
S60	48	rectang\$5 near2 light near2 pipe same (barcode or "bar code" or bar-code or image or symbol or indica)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/18 14:39
S61	47	((("6033090") or ("5463214") or ("6234397") or ("5514858") or ("6250551") or ("6513714") or ("6405925") or ("5378883") or ("6158661") or ("5481098") or ("6491223") or ("5569902") or ("5331176") or ("5598007") or ("6247645") or ("5697699") or ("5619029") or ("5149948") or ("5406060") or ("5586212") or ("5859418") or ("3726998") or ("6592040")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/02/14 15:58

S64	21	((("6283374") or ("6360948") or ("6371374") or ("6385352") or ("6575367") or ("6607128") or ("20020096566") or ("20020125322") or ("20030062418") or ("20010027999")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/02/14 15:58
S86	32	"235"/\$.ccls. and (illuminat\$4 or light) near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6) same (illuminat\$6) near4 (image\$4 or barcode or "bar code" or bar-code or indicia or medium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S87	9	"235"/\$.ccls. and (illuminat\$4 or light) near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6) same (illuminat\$6) near4 (image\$4 or barcode or "bar code" or bar-code or indicia or medium) and rectangular same (illuminat\$4 or light)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S88	10	"235"/\$.ccls. and (illuminat\$4 or light) near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6) same (illuminat\$6) near4 (image\$4 or barcode or "bar code" or bar-code or indicia or medium) and (rectangular or rectangle) same (illuminat\$4 or light)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S89	614	"235"/\$.ccls. and (illuminat\$4 or light) near2 aim\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S90	259	"235"/\$.ccls. and (illuminat\$4 or light) near2 aim\$4 same (ccd or image near1 sens\$6 or cmos or imag\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58

S91	47	(("6033090") or ("5463214") or ("6234397") or ("5514858") or ("6250551") or ("6513714") or ("6405925") or ("5378883") or ("6158661") or ("5481098") or ("6491223") or ("5569902") or ("5331176") or ("5598007") or ("6247645") or ("5697699") or ("5619029") or ("5149948") or ("5406060") or ("5586212") or ("5859418") or ("3726998") or ("6592040")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/02/14 15:58
S92	43	((("5177346") or ("6352204") or ("4820911") or ("5291009") or ("5349172") or ("5354977") or ("5484994") or ("5532467") or ("5591955") or ("5606160") or ("5623137") or ("5703348") or ("5756981") or ("5777314") or ("5894348") or ("5907148") or ("5969321") or ("5992751") or ("6036095") or ("6060722") or ("6105869") or ("6119939") or ("6267294")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/02/14 15:58
S93	19	(S91 or S92) and (pipe or tube or hollow or needle or lumen)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S100	478	light adj1 pipe near6 (circle or circular or ring or retang\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58

S101	30	light adj1 pipe near6 (circle or circular or ring or retang\$6) and (illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S102	71	light adj1 pipe near6 (circle or circular or ring or retang\$6 or shape) and (illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S103	6039	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) same (ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S104	2451	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near5 (ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S105	3281	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag \$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S106	1525	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag \$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58

S107	96	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (edge or perimeter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S108	18	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S109	11	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S110	11	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S111	12861	"light pipe"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58

S112	65	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (diffus\$4 or tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S116	242	rectang\$5 near2 light near2 pipe	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S117	60	rectang\$5 near2 light near2 pipe same (object or subject or barcode or "bar code" or bar-code or image or symbol or indica)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S118	0	rectang\$5 near2 light near2 pipe same (object or subject or barcode or "bar code" or bar-code or image or symbol or indica) and "235"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S119	50	rectang\$5 near2 light near2 pipe same (barcode or "bar code" or bar-code or image or symbol or indica)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/14 15:58
S123	21	((("6283374") or ("6360948") or ("6371374") or ("6385352") or ("6575367") or ("6607128") or ("20020096566") or ("20020125322") or ("20030062418") or ("20010027999")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/05/21 11:00
S149	442	"235"/\$.ccls. and (illuminat\$4 or light) near2 aim\$4 same (ccd or image near1 sens\$6 or cmos or imag\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00

S150	47	(("6033090") or ("5463214") or ("6234397") or ("5514858") or ("6250551") or ("6513714") or ("6405925") or ("5378883") or ("6158661") or ("5481098") or ("6491223") or ("5569902") or ("5331176") or ("5598007") or ("6247645") or ("5697699") or ("5619029") or ("5149948") or ("5406060") or ("5586212") or ("5859418") or ("3726998") or ("6592040")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/05/21 11:00
S151	43	(("5177346") or ("6352204") or ("4820911") or ("5291009") or ("5349172") or ("5354977") or ("5484994") or ("5532467") or ("5591955") or ("5606160") or ("5623137") or ("5703348") or ("5756981") or ("5777314") or ("5894348") or ("5907148") or ("5969321") or ("5992751") or ("6036095") or ("6060722") or ("6105869") or ("6119939") or ("6267294")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/05/21 11:00
S152	19	(S150 or S151) and (pipe or tube or hollow or needle or lumen)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S153	2	"20050087601"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00

S155	1338	(illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code) and (pipe or tube or hollow or needle or lumen) and ((low near2 angle) or (high near2 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S156	338	(illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code) and light near3 (pipe or tube or hollow or needle or lumen) and ((low near2 angle) or (high near2 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S157	193	(illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code) and light near3 (pipe or tube or hollow or needle or lumen) and ((low adj1 angle) or (high adj1 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S158	2	"20050047723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S159	579	light adj1 pipe near6 (circle or circular or ring or retang\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S160	40	light adj1 pipe near6 (circle or circular or ring or retang\$6) and (illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S161	96	light adj1 pipe near6 (circle or circular or ring or retang\$6 or shape) and (illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00



S162	7448	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) same (ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S163	3032	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near5 (ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S164	3903	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag \$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S165	1864	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag \$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S166	110	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag \$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (edge or perimeter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00

S167	21	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S168	14	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S169	14	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S170	16170	"light pipe"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S171	80	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (diffus\$4 or tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S175	275	rectang\$5 near2 light near2 pipe	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00

S176	71	rectang\$5 near2 light near2 pipe same (object or subject or barcode or "bar code" or bar-code or image or symbol or indica)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S177	0	rectang\$5 near2 light near2 pipe same (object or subject or barcode or "bar code" or bar-code or image or symbol or indica) and "235"/\$.cls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S178	61	rectang\$5 near2 light near2 pipe same (barcode or "bar code" or bar-code or image or symbol or indica)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S193	72	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe same dark with bright	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S194	583	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near4 light same (circular or circle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:00
S195	219	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near4 light same (circular or circle) same (square or rectangle or rectangular)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S196	17	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near4 light same (circular or circle) same (square or rectangle or rectangular) and field near3 view	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S197	30	(barcode or "bar code" or bar-code or image or symbol or indica) same pipe near4 light same (circular or circle) same (square or rectangle or rectangular)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S198	209	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near2 light same (circular or circle) same (square or rectangle or rectangular)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01

S199	21	(barcode or "bar code" or bar-code or symbol or indica) and pipe near2 light same (circular or circle) same (square or rectangle or rectangular)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S200	259	(barcode or "bar code" or bar-code or image or symbol or indica) and pipe near4 light same (handheld or hand-held or portable or "hand held")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S201	50	(barcode or "bar code" or bar-code or image or symbol or indica) same pipe near4 light same (handheld or hand-held or "hand held")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S202	628	"235"/\$.cds. and light near2 (ring or pipe)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S203	214	"235"/\$.cds. and light near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S204	59	"235"/\$.cds. and (illuminat\$4 or light) near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6) same (illuminat\$6) near4 (image\$4 or barcode or "bar code" or bar-code or indicia or medium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S205	13	"235"/\$.cds. and (illuminat\$4 or light) near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6) same (illuminat\$6) near4 (image\$4 or barcode or "bar code" or bar-code or indicia or medium) and rectangular same (illuminat\$4 or light)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01

S206	14	"235"/\$.ccls. and (illuminat\$4 or light) near2 (ring or pipe) same (ccd or image near1 sens\$6 or cmos or imag\$6) same (illuminat\$6) near4 (image\$4 or barcode or "bar code" or bar-code or indicia or medium) and (rectangular or rectangle) same (illuminat\$4 or light)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S207	831	"235"/\$.ccls. and (illuminat\$4 or light) near2 aim\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S208	442	"235"/\$.ccls. and (illuminat\$4 or light) near2 aim\$4 same (ccd or image near1 sens\$6 or cmos or imag\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S209	47	((("6033090") or ("5463214") or ("6234397") or ("5514858") or ("6250551") or ("6513714") or ("6405925") or ("5378883") or ("6158661") or ("5481098") or ("6491223") or ("5569902") or ("5331176") or ("5598007") or ("6247645") or ("5697699") or ("5619029") or ("5149948") or ("5406060") or ("5586212") or ("5859418") or ("3726998") or ("6592040"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/05/21 11:01
S210	43	((("5177346") or ("6352204") or ("4820911") or ("5291009") or ("5349172") or ("5354977") or ("5484994") or ("5532467") or ("5591955") or ("5606160") or ("5623137") or ("5703348") or ("5756981") or	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/05/21 11:01

		("5777314") or ("5894348") or ("5907148") or ("5969321") or ("5992751") or ("6036095") or ("6060722") or ("6105869") or ("6119939") or ("6267294")).PN.				
S211	19	(S209 or S210) and (pipe or tube or hollow or needle or lumen)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S212	2	"20050087601"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S213	11	(S209 or S210) and (pipe or tube or hollow or needle or lumen) and (bright or dark or (low near2 angle) or (high near2 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S214	1338	(illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code) and (pipe or tube or hollow or needle or lumen) and ((low near2 angle) or (high near2 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S215	338	(illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code) and light near3 (pipe or tube or hollow or needle or lumen) and ((low near2 angle) or (high near2 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S216	193	(illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code) and light near3 (pipe or tube or hollow or needle or lumen) and ((low adj1 angle) or (high adj1 angle) or low-angle or high-angle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01

S217	2	"20050047723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S218	579	light adj1 pipe near6 (circle or circular or ring or retang\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S219	40	light adj1 pipe near6 (circle or circular or ring or retang\$6) and (illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S220	96	light adj1 pipe near6 (circle or circular or ring or retang\$6 or shape) and (illuminator or sensor or sensing or reader or reading) near6 (imag\$4 or barcode or "bar code" or bar-code)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S221	7448	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) same (ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S222	3032	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near5 (ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S223	3903	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag \$4 or ccd or sens\$4 or detect\$4) same (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01

S224	1864	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S225	110	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (edge or perimeter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S226	21	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or ring or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S227	14	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S228	14	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
S229	16170	"light pipe"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01



S230	80	(illuminat\$6 or (shin\$4 or aim\$4 or direct\$4) near2 light\$4) near3 (diffus\$4 or tube or pipe) same (imag\$4 or ccd or sens\$4 or detect\$4) near10 (barcode or "bar code" or bar-code or image or symbol or indica or subject) same (light or led) near4 (edge or perimeter or ring)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/05/21 11:01
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